

M. Ehrenberg* considers the separation and isolation of the stomachic vesicles as surprising only to those who have not observed earth worms cut into pieces. These pieces, he observes, let them be ever so minute, contract at each extremity in such a manner that but very little of the contained juices escape, and a similar effect is produced by the contraction of the isolated stomachs of the Infusoria. One fact undoubtedly is more forcible than all arguments; and I only regret that that of a vesicle containing fragments of *Oscillatoria* has not presented itself several times to the observer; for with respect to the alleged stomachs without contained aliments, even when they appear slightly coloured, the false comparison with the pieces of earth worms will not suffice to prove to me that the globules are not part of the gelatinous substance of the Infusoria, since I have frequently seen these globules coloured, either from their having a tinge of their own, or that this effect was the result of an optical illusion or of a phænomenon of accidental colours.

XXI.—*Descriptions of British Chalcidites.* By FRANCIS WALKER, F.L.S.

[Continued from vol. ii. p. 355.]

Sp. 45. *Cirrospilus Murcia*, Mas. *Cyaneus*, abdomen cupreum, antennæ nigro-piceæ, femora nigra, tibiæ piceæ, tarsi fusi, protibiæ fulvæ, alæ sublimpidæ.

Obscure cyaneus: oculi et ocelli rufi: antennæ nigro-piceæ; articuli 1^{us} et 2^{us} nigro-cyanei, hic apice piceus; abdomen cupreum: pedes fusi; coxæ nigrae; femora nigra; tibiæ piceæ; genua fulva; propedum femora apice fulva: alæ sublimpidæ; squamulæ piceæ; nervi pallide fusi. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Found near London.

Mas. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum; vertex sat latus; frons abrupte declivis: oculi mediocres: antennæ filiformes corporis longitudine, pilis longis vestitæ; articulus 1^{us} gracilis, sublinearis; 2^{us} longicyathiformis; 3^{us} brevis; 4^{us}, 5^{us} et 6^{us} longi, lineares; clava longifusiformis, acuminata, articulo 6^o duplo longior: thorax ovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturæ remotæ, bene determinatæ; scutellum breviconicum: metathorax transversus, mediocris: petiolus brevissimus: abdomen sublineare, planum,

* Die Infusionsthierchen, 1838, p. 361.

horace brevius, fere angustius; segmentum 1^{um} magnum, 2^{um} et sequentia breviora, transversa: sexualia exerta: pedes graciles, simplices, subæquales; tarsis articuli 1^o ad 3^{um} curtantes, 4^{us} 3^o longior; ungues et pulvilli parvi: alis nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus ad alæ apicem propensus stigma parvum fere bimucronatum fingens.

Fem. Antennæ subclavatæ, corporis dimidio longiores; articulus 4^{us} 3^o brevior; 5^{us} adhuc brevior; clava fusiformis, acuminata, articulo 5^o duplo longior: abdomen longiovatum, thorace longius, vix latius, supra planum, subtus carinatum, apice acuminatum.

Sp. 46. *Cirr.* Athyrte, Mas et Fem. *Cyaneo-viridis, cupreo-varius, antennæ fuscae aut nigræ, pedes flavi, femora piceo- aut viridi-varia, alæ sublimpidæ.*

Fem. Cyaneo-viridis: oculi et ocelli rufi: antennæ fuscae; articulus 1^{us} viridis; 2^{us} piceus, apice fulvus: gula flava: abdomen cupreo-varium: oviductus vaginæ nigræ: pedes flavi; coxæ virides; tarsi apice fusci; protarsi fulvi; mesofemora piceo-cincta; metafemora viridia, apice flava: alæ sublimpidæ; squamulæ fulvæ; proalis nervi fulvi, metalis flavi.

Mas. Antennis articulus 2^{us} viridis, apice fulvus; gula picea: abdomen cupreum: sexualia picea: femora flava, basi supra picea. (Corp. long. lin. $\frac{3}{4}$ —1; alar. lin. 1—1 $\frac{1}{2}$.)

Var. β. Fem.—Abdomen cupreum, apice cyaneo-viride cupreo-varium: propedum femora basi viridia, tibiæ extus fulvæ: meso- et metatibiæ fulvæ, apice et basi flavæ.

Var. γ. Fem.—Thoracis discus cupreo-varius.

Var. δ. Fem.—*Var. γ.* similis: pro- et mesofemora flava, basi supra picea.

Var. ε. Fem.—Alæ limpidæ.

Var. ζ. Fem.—Abdomen cupreum: meso- et metafemora flava, piceo vittata: alæ limpidæ.

Var. η. Fem.—Viridi-cyaneus: abdominis discus cupreo-varius: femora flava, piceo-cincta; alæ limpidæ.

Var. θ. Fem.—Cyaneus: abdomen cupreum: femora flava, piceo-cincta; alæ limpidæ.

Var. ι. Fem.—Femora omnia basi viridia.

Var. κ. Fem.—Cupreus: caput et mesothoracis scutellum viridia.

Var. λ. Fem.—Antennæ nigræ; articuli 1^{us} et 2^{us} virides: abdomen supra cupreum: pro- et meso-femora basi viridia.

Var. μ. Fem.—Cyaneo-viridis æneo-varius: antennis articuli 1^{us} et 2^{us} virides, hic apice subtus fulvus: abdomen cupreum: femora flava, basi viridia.

Var. ν. Fem.—Obscure viridis: antennæ piceæ; articuli 1^{us} et 2^{us} virides, hic apice fulvus: thoracis discus cupreo-varius: abdominis discus cupreus: femora flava, basi viridia; propedes tibiis et tarsis fulvis.

Var. ο. Fem.—*Var. ν.* similis: thorax omnino viridis: femora viridia, apice flava.

May to September; near London, Hampshire. Found by Mr. Haliday, on willows, near Belfast, Ireland.

Sp. 47. Cirr. Bunus, Mas et Fem. *Præcedenti simillimus, at minor et gracilior.*

Æneo-viridis: oculi et ocelli rufi; antennæ fuscæ; articulus 1^{us} viridis: 2^{us} fulvus, basi piceus: abdomen cupreum: sexualia picea: pedes flavi; coxæ virides; tarsi apice fuscii, metafemora basi picea; protarsi fulvi: alæ sublimpidæ; squamulæ piceæ; nervi fuscii. (Corp. long. lin. $\frac{1}{2}$ — $\frac{3}{4}$; alar. lin. $\frac{3}{4}$ —1 $\frac{1}{2}$.)

Var. β. Fem.—Antennis articulus 2^{us} piceus: abdomen viridi-varium.

Var. γ. Fem.—Caput viride: thorax concolor: antennis articulus 2^{us} piceus, apice fulvus: femora basi picea; metafemora viridia, apice fulva.

Var. δ. Fem.—Cyaneo-viridis: antennæ pallide fuscæ; articuli 1^{us} et 2^{us} virides, hic apice subtus fulvus: abdomen viridi-cyaneum; discus cupreo-varius; femora basi picea; alis squamulæ fulvæ, nervi flavi.

Var. ε. Fem.—*Var. δ* similis: thorax cupreo-viridis: abdomen cyaneo-cupreum.

Var. ζ. Fem.—Cyaneo-viridis, æneo-varius: antennæ nigro-piceæ; articuli 1^{us} et 2^{us} virides: abdomen cupreum: femora nigra, apice flava; propedum femora flava, basi nigra, tibiæ pallide fulvæ, tarsi obscuriores.

September; near London, Devonshire. Ireland, Mr. Haliday.

Sp. 48. Cirr. Abantidas, Mas. *Nigro-viridis præcedentibus simillimus, at longior; abdomen cupreum, antennæ fulvæ, pedes flavi, alæ limpidæ.*

Nigro-viridis: oculi et ocelli rufi: os fuscum: antennæ fulvæ; articulus 1^{us} viridis; 2^{us} basi piceus: abdomen cupreum: pedes flavi; coxæ virides; femora picea, apice flava; tarsi apice fuscii; protarsi fulvi: alæ limpidæ; squamulæ piceæ; nervi fuscii, basi fulvi. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1 $\frac{1}{2}$.)

Found near London.

Sp. 49. Cirr. Menius, Mas. C. Buno *simillimus, antennæ densius pilosæ.*

Obscure viridis: oculi et ocelli rufi: antennæ nigro-piceæ; articuli 1^{us} et 2^{us} virides, hic apice et subtus piceus: abdomen nigro-cupreum: sexualia picea: pedes flavi; coxæ virides; femora basi nigra; tarsi apice fuscii; protibiæ fulvæ; meso- et metatibiæ pallide fuscæ, apice et basi flavæ; protarsi fulvi: alæ sublimpidæ; squamulæ piceæ; nervi fulvi. (Corp. long. lin. $\frac{1}{2}$ — $\frac{1}{2}$; alar. lin. $\frac{2}{3}$ — $\frac{2}{3}$.)

Var. β.—Meso- et metatibiæ flavæ, fusco-cinctæ.

Found near London.

Sp. 50. Cirr. Enagoras, Mas. *Nigro-viridis, abdomen cupreum, antennæ piceæ, pedes fuscii, alæ subfuscæ.*

Nigro-viridis: oculi et ocelli rufi: antennæ piceæ; articuli 1^{us} et 2^{us} virides: abdomen cupreum: sexualia picea: pedes fuscii; coxæ virides; trochanteres fulvi; femora viridia, apice flava; tarsi basi fulvi; protibiæ fulvæ: alæ subfuscæ; squamulæ piceæ; proalis nervi fuscii, metalis fulvi. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Found near London.

Sp. 51. Cirr. Molo, Fem. *Cyaneus, viridi- et æneo-varius, antennæ fuscæ, pedes flavi, femora viridia aut cyanea: alæ limpidæ.*

Cyaneo-viridis: oculi et ocelli rufi: antennæ fuscæ; articuli 1^{us} et 2^{us} virides, hic apice et subtus fuscus: abdomen cyaneum æneo-varium: pedes flavi; coxæ virides; femora basi viridia; tarsi apice fulvi; metafemora viridia; propedum tibiæ et tarsi fulva: alæ limpidæ; squamulæ fulvæ; nervi fulvi. (Corp. long. lin. $\frac{1}{4}$ — $\frac{2}{3}$; alar. lin. $\frac{3}{4}$ — $\frac{7}{8}$.)

Var. β .—Cyaneus: abdomen æneo-varium: femora cyanea.

Var. γ .—Var. β . similis: abdomen omnino cyaneum: profemora flava, basi cyanea.

Found near London.

Sp. 52. Cirr. Epicharmus, Fem. *Nigro-viridis, abdomen cupreum, antennæ nigræ aut fuscæ, femora viridia, tibiæ piceæ aut fuscæ, tarsi flavi, alæ latæ limpidæ.*

Nigro-viridis: oculi et ocelli rufi: antennæ nigro-piceæ; articuli 1^{us} et 2^{us} virides: abdomen cupreum: pedes picei; coxæ virides; femora viridia; genua fulva; tarsi fulvi, apice fusci; propedum tibiæ subtus fulvæ, tarsi fusci: alæ limpidæ; squamulæ piceæ; nervi fulvi. (Corp. long. lin. $\frac{2}{3}$ — $\frac{3}{4}$; alar. lin. 1—1 $\frac{1}{4}$.)

Var. β .—Antennæ fuscæ; articuli 1^{us} et 2^{us} virides, ille basi et hic apice fusci: abdomen cyaneum; discus cupreus: pedes flavi; coxæ virides; femora viridia; tibiæ fuscæ; tarsi apice fusci.

Var. γ .—Antennæ nigræ; articuli 1^{us} et 2^{us} virides: pedes virides; trochanteres picei; genua fulva; tibiæ piceæ; tarsi flavi, apice fusci; protarsi fulvi.

Found near London.

Sp. 53. Cirr. Endemus, Fem. *Cyaneo-viridis, abdomen cupreo-varium, antennæ piceæ, pedes fusci, femora viridia, alæ latæ limpidæ.*

Cyaneo-viridis: oculi et ocelli rufi: antennæ piceæ; articuli 1^{us} et 2^{us} virides; abdomen cyaneum, basi cupreum: pedes virides; trochanteres fusci; genua fulva; tibiæ piceæ; tarsi fusci, basi fulvi; propedes tibiis et tarsis fulvis; mesopedum tibiæ fuscæ, tarsi flavi, apice fusci; metatibiæ piceæ: alæ limpidæ; squamulæ cyaneæ; nervi fulvi; stigma fuscum. (Corp. long. lin. $\frac{2}{3}$ — $\frac{3}{4}$; alar. lin. 1—1 $\frac{1}{4}$.)

Var. β .—Abdomen cupreum, apicem versus cyaneo-viridi-varium; tibiæ fuscæ; tarsi fusci, basi fulvi; propedum tibiæ fulvæ, tarsi obscuriores.

May, September; near London; Hampshire, Isle of Wight.

Sp. 54. Cirr. Chares, Fem. *Viridis aut viridi-cyaneus, abdomen cupreum, antennæ fuscæ, pedes flavi, femora viridia: angustæ alæ sublimpidæ.*

Viridis: oculi et ocelli rufi: antennæ fuscæ; articulus 1^{us} viridis; 2^{us} supra piceus: abdomen cupreum: pedes flavi; coxæ virides; femora viridia, apice flava; tarsi apice fulvi; protibiæ et protarsi fulva: alæ sublimpidæ; squamulæ fulvæ; nervi fulvi. (Corp. long. lin. $\frac{1}{4}$; alar. lin. $\frac{3}{4}$.)

Var. β .—Cæput viridi-cyaneum: thorax concolor: femora viridi-fusca, apice et basi flava.

Found near London.

Sp. 55. Cirr. Beroë, Fem. *Nigro-viridis*, abdomen cupreum, antennæ piceæ, pedes flavi, metafemora picea, alæ latæ limpidae.

Nigro-viridis: oculi et ocelli rufi: antennæ piceæ, articuli 1^{us} et 2^{us} virides, hic apice fuscus: abdomen cupreum: pedes flavi; coxæ virides; tarsi apice fusci; metafemora picea; propedum tibiæ et tarsi pallide fulva; alæ limpidae; squamulæ piceæ; nervi fulvi. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Found near London.

Fem. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ extrorsum crassiores, corporis dimidio longiores; articulus 1^{us} gracilis, sublinearis; 2^{us} longicyathiformis; 4^{us} 3^o brevior; 5^{us} adhuc brevior; clava fusiformis, acuminata, articulo 5^o duplo longior: thorax ovatus, convexus; prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturæ bene determinatæ; scutellum brevi-conicum: metathorax transversus, mediocris: petiolus brevissimus; abdomen longiovatum, thorace longius vix latius, supra planum, subtus carinatum, apice acuminatum: proalæ latæ, nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Sp. 56. Cirr. Rhacius, Fem. *Æneus aut viridi-cyaneus*, antennæ fuscæ, pedes flavi, femora basi fusca aut ænea, alæ limpidae.

Æneus: oculi et ocelli rufi: antennæ fuscæ; articuli 1^{us} et 2^{us} ænei, hic apice fuscus: abdomen cupreo-æneum: pedes flavi; coxæ nigro-æneæ; femora nigro-ænea, apice flava; tarsi apice fusci; propedes tibiis et tarsis fulvis: alæ limpidae; squamulæ fuscæ; nervi fusci. (Corp. long. lin. $\frac{2}{3}$; alar. lin. 1.)

Var. β.—Thorax viridi-æneus.

Var. γ.—Viridis: abdomen viridi-æneum.

Var. δ.—Viridi-cyaneus: antennis articuli 1^{us} et 2^{us} virides: abdomen cupreum: oviductus fulvus; vaginæ piceæ: coxæ virides; femora flava, basi fusca; alis squamulæ fulvæ; nervi flavi.

Found near London.

Sp. 57. Cirr. Æga, Fem. *Cyaneus*, abdomen cupreo-viride, antennæ piceæ, pedes flavi, femora cyanea, tibiæ fusco-cinctæ, alæ sublimpidæ.

Cyaneus: oculi et ocelli rufi: antennæ piceæ; articuli 1^{us} et 2^{us} cyanei: abdomen cupreo-viride: pedes cyanei; femora apice flava; trochanteres picei; tibiæ fuscæ, apice et basi flavæ; tarsi flavi, apice fusci; protarsi fulvi: alæ sublimpidæ; squamulæ piceæ; nervi flavi. (Corp. long. lin. $\frac{3}{4}$; alar. lin. 1.)

Found near London.

Fem. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ clavatæ, corporis dimidio paullo breviores; articulus 1^{us} gracilis, sublinearis; 2^{us} longicyathiformis; 4^{us} 3^o brevior, 5^{us} adhuc brevior; clava fusiformis, acuminata, articulo 5^o duplo longior: thorax ovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum

suturæ bene determinatæ; scutellum brevi-conicum: metathorax transversus, mediocris: petiolus brevissimus: abdomen fusiforme, thorace angustius et multo longius, supra planum, subtus carinatum, apice acuminatum: pedes graciles: alæ mediocres; nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Sp. 58. *Cirr. Anticlea, Fem. Viridis, cyaneo- et æneo-varius, abdomen cupreum, antennæ nigræ aut piceæ, pedes picei aut fulvo-fusci, femora viridia, tarsi flavi, alæ limpidæ.*

Viridi-cyaneus: oculi et ocelli rufi: antennæ nigro-piceæ; articuli 1^{us} et 2^{us} virides, hic apice fulvus: abdomen cyaneum; discus cupreus: pedes virides; trochanteres picei; genua flava; tibiæ fuscae, apice flavæ; tarsi pallide fusci, basi flavi; propedum tibiæ et tarsi fulva; alæ limpidæ; squamulæ piceæ; nervi fulvi, basi flavi; metalis nervi flavi. (Corp. long. lin. $\frac{3}{4}$ — $\frac{3}{4}$; alar. lin. 1—1 $\frac{1}{4}$.)

Var. β.—Viridi-æneus: antennæ nigræ; articulus 1^{us} fulvus, apice piceus: abdomen cupreum, basi cyaneo-viride: pedes fulvi; coxæ virides; femora viridia; meso- et metatarsi flavi, apice fusci; protarsi apice fusci; proalis nervi fusci.

Var. γ.—Nigro-viridis; antennæ piceæ; articulus 1^{us} niger, 2^{us} apice fulvus: abdomen nigro-cupreum: pedes nigro-virides; trochanteres fulvi; genua fulva; tibiæ piceæ, apice fulvæ; tarsi flavi, basi fulvi; protarsi fusci.

July; near London, Isle of Wight.

Mas. Corpus sublineare, nitens, scitissime squameum, parce hirtum: caput transversum, breve, convexum, juxta thoraci latum: antennæ filiformes, hirtæ, corporis longitudine; articulus 1^{us} gracilis, sublinearis; 2^{us} longicyathiformis; 3^{us} brevis; 4^{us}, 5^{us} et 6^{us} subæquales, latitudine longiores; clava longifusiformis, acuminata, articulo 6^o duplo longior: thorax ovatus, convexus: prothorax brevissimus, supra vix conspicuus: mesothoracis scutum latitudine longius; parapsidum suturæ bene determinatæ; scutellum brevi-conicum: metathorax transversus, mediocris: petiolus brevissimus: abdomen sublineare, planum, thoracē angustius, non brevius: pedes graciles: proalæ latæ; nervus ulnaris humerali longior, radialis vix ullus, cubitalis sat longus.

Fem. Antennæ subclavatæ, corporis dimidio longiores; articulus 4^{us} 3^o brevior; 5^{us} adhuc brevior; clava fusiformis, acuminata, articulo 5^o duplo longior: abdomen longiovatum, thorace longius, vix latius, supra planum, subtus carinatum, apice acuminatum.

[To be continued.]

XXII.—*Note on the Effects of the Hurricane of January 7, 1839, in Ireland, on some Birds, Fishes, &c.* By WILLIAM THOMPSON, Esq.

I SHALL here record the very few particulars on this subject that have as yet become known to me. As may be conjectured, stormy